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liposome adj5 atp	21

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L1: Entry 4 of 21

File: USPT

May 16, 2000

DOCUMENT-IDENTIFIER: US 6063400 A

TITLE: Targeted liposomal constructs for diagnostic and therapeutic uses

Detailed Description Text (2):Preparation of Hepatocyte-directed Liposomes Containing a Serotonin-ATP Complex.Detailed Description Text (3):

Adenosine 5'-triphosphate (ATP) is used as a liposomal sequestrant for serotonin along with the lipid membrane constituents of 69.0 mg of 1,2-distearoyl-sn-glycerol-3-phosphatidylcholine (distearoyl lecithin) and 14.0 mg of dicetylphosphate both from Avanti Biochemicals; 1.0 mg of N-(2,6-diisopropylphenylcarbamoylmethyl)imino diacetic acid and 5.0 mg of cholesterol, both from Sigma Chemical Co. The lipid constituents are solubilized in 1.5 ml of chloroform:methanol solvent (2:1 v/v) from Aldrich Chemical Co. The sample is placed on a Buichi Rotoevaporator and taken to dryness with slow turning under aspirator vacuum at 60.degree. C. Then a solution of 2.4 ml of freshly prepared 40 mM sodium phosphate buffer at pH 7.4 containing 4.2 mg/ml human serum albumin, 10 mg/ml serotonin and at least 14.4 mg/ml of ATP, all from Sigma Chemical Co., is prepared and added to the dried lipid components. The sample is sonicated at setting #4 for 15 minutes at 60.degree. C., using a HeatSystems Ultrasonic/Cell Disrupter equipped with a transducer and cup horn. Next, the sample is annealed at 60.degree. C. with slow turning for 15 minutes to permit the liposomal membranes to become more perfectly formed and more stable. The sample is then centrifuged in a Triac Clinical Centrifuge at the blood setting for 15 minutes at room temperature, and then 1.5 ml of the supernatant material is chromatographed on a 1.5.times.25.0 cm Sephadex G-100-120 column that has been equilibrated with 40 mM phosphate buffer pH 7.4. This first chromatography is performed to remove the untrapped serum albumin and the serotonin-ATP complex. The liposomes are collected and, with respect to the initial concentration on N-(2,6-diisopropylphenylcarbamoylmethyl)imino diacetic acid, they are reacted with a five-fold mole excess of chromium chloride hexahydrate. The purified liposomes containing the serotonin ATP complex were then reacted with a five-fold mole excess of N-(2,6-diisopropylphenylcarbamoylmethyl)imino diacetic acid target molecules. The liposomes are then again rechromatographed using the same buffer to remove unreacted target molecules. The liposomes were stored under nitrogen at 5.degree. C. These hepatocyte-directed liposomes containing the serotonin-ATP complex are diluted with 40 mM phosphate-buffered saline, pH 7.4, prior to the administration to a warm-blooded host.

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L1: Entry 9 of 21

File: USPT

Jun 30, 1998

DOCUMENT-IDENTIFIER: US 5773232 A

TITLE: Methods for measurement of lymphocyte function

## CLAIMS:

16. A method according to claim 15 wherein said standard sample is liposomes containing ATP.

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L1: Entry 11 of 21

File: USPT

Jan 14, 1997

DOCUMENT-IDENTIFIER: US 5593688 A

TITLE: Liposomal targeting of ischemic tissue

Other Reference Publication (15):

Chemical Abstracts, vol. 109, No. 11, 12 Sep. 1988, Columbus, Ohio, US: abstract No. 85657M, D. Zang et al.: the distribution of liposome-encapsualted atp in experimental ishemic myocardium p. 11: columb 2; & zhonghua xinxeuguanbing azahi 1988, 16(1) pp. 48-51 (abstract).

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L1: Entry 12 of 21

File: USPT

Aug 6, 1996

DOCUMENT-IDENTIFIER: US 5543399 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Cystic fibrosis transmembrane conductance regulator (CFTR) protein

Detailed Description Text (15):

FIGS. 7 B, C and D show records representative of many experiments to assess the relationships of the properties of the channel assayed in this way to those exhibited in the patch-clamp experiments with the cells from which CFTR had been purified. Fusion of liposomes without added CFTR (FIG. 7B) failed to produce the appearance of stepwise changes in current levels in the presence of PKA and Mg-ATP (added to both cis and trans compartment in all cases; n=6). Furthermore, fusion of CFTR-containing liposomes without added PKA and Mg-ATP (FIG. 7C) failed to evoke the appearance of single channel currents in 35 experiments in which fusion was achieved. Similarly, the addition of ATP alone, prior to PKA addition did not cause the appearance of single channel steps. Switch-like transitions in current level were only detected following fusion of CFTR containing liposomes in the presence of both PKA and ATP (FIG. 7D). Single channel events were observed in 35 of 45 experiments in which nystatin-induced fusion spikes were observed. Hence, in these experiments approximately 550 independent fusion events were detected and as a consequence 35 low conductance single channel events were detected. No single channel currents were detected in 10 of these 45 experiments due to problems of high noise and bilayer breakage. The mean open probability of the PKA stimulated channel was  $0.38 \pm 0.13$  for five experiments, a value close to that reported by Tabcharani et al (1991) for phosphorylation activated Cl<sub>sup</sub>- channel in excised patches from CFTR-expressing CHO cells of 0.41.

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L1: Entry 16 of 21

File: USPT

Nov 3, 1987

DOCUMENT-IDENTIFIER: US 4704355 A

TITLE: Assay utilizing ATP encapsulated within liposome particles

Abstract Text (1):

An assay utilizing receptor or antibody sensitized liposome particles which have ATP encapsulated therein. The ATP is released by lysing the liposomes, and detected by means of luciferin-luciferase reagent and a luminometer. The assay provides a very sensitive process for detecting the presence of analytes such as antigens and DNA probes.

Brief Summary Text (2):

This invention relates to biological assays. Specifically, the invention employs sensitized liposomes having ATP encapsulated therein for determining the presence of biological analytes such as antigens and DNA probes.

Brief Summary Text (43):

Another option for use of ATP laden immunologically reactive liposomes would involve using them in a heterogeneous assay on strips or membranes which have entrapped or bound thereon the analyte of interest. The liposomes can be reacted with these strips, and after washing, the bound liposomes could be lysed and the released ATP measured in a luciferin-luciferase ATP assay.

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☐ 1. Document ID: US 6797467 B1

Using default format because multiple data bases are involved.

L1: Entry 1 of 21

File: USPT

Sep 28, 2004

US-PAT-NO: 6797467

DOCUMENT-IDENTIFIER: US 6797467 B1

TITLE: Compositions and methods for determining interactions of mitochondrial components, and for identifying agents that alter such interactions

DATE-ISSUED: September 28, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Murphy; Anne N.	Encinitas	CA		
Clevenger; William	Oceanside	CA		
Wiley; Sandra Eileen	San Diego	CA		
Andreyev; Alexander Y.	San Diego	CA		
Frigeri; Luciano G.	San Diego	CA		
Velicelebi; Gonul	San Diego	CA		
Davis; Robert E.	San Diego	CA		

US-CL-CURRENT: [435/6](#); [435/26](#), [435/4](#), [435/7.8](#), [514/588](#), [536/22.1](#), [800/301](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Data
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☐ 2. Document ID: US 6599502 B2

L1: Entry 2 of 21

File: USPT

Jul 29, 2003

US-PAT-NO: 6599502

DOCUMENT-IDENTIFIER: US 6599502 B2

TITLE: Intracellular delivery vehicles

DATE-ISSUED: July 29, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Portnoy; Daniel A.	Berkeley	CA		
Higgins; Darren E.	Berkeley	CA		

US-CL-CURRENT: [424/93.1](#); [424/184.1](#), [424/200.1](#), [424/93.2](#), [424/93.4](#), [435/252.1](#),  
[435/252.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 6287556 B1

L1: Entry 3 of 21

File: USPT

Sep 11, 2001

US-PAT-NO: 6287556

DOCUMENT-IDENTIFIER: US 6287556 B1

TITLE: Intracellular delivery vehicles

DATE-ISSUED: September 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Portnoy; Daniel A.	Berkeley	CA		
Higgins; Darren E.	Berkeley	CA		

US-CL-CURRENT: [424/93.1](#); [424/184.1](#), [424/93.2](#), [424/93.4](#), [435/252.1](#), [435/252.3](#),  
[514/2](#), [514/44](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 4. Document ID: US 6063400 A

L1: Entry 4 of 21

File: USPT

May 16, 2000

US-PAT-NO: 6063400

DOCUMENT-IDENTIFIER: US 6063400 A

TITLE: Targeted liposomal constructs for diagnostic and therapeutic uses

DATE-ISSUED: May 16, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Geho; W. Blair	Wooster	OH		
Lau; John R.	Howard	OH		

US-CL-CURRENT: [424/450](#); [424/1.21](#), [424/417](#), [424/9.321](#), [424/9.51](#), [424/94.3](#), [436/829](#),  
[514/45](#), [514/49](#), [514/561](#), [514/649](#), [514/663](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: US 6019998 A

L1: Entry 5 of 21

File: USPT

Feb 1, 2000



US-PAT-NO: 6019998

DOCUMENT-IDENTIFIER: US 6019998 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Membrane structure

DATE-ISSUED: February 1, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nomoto; Tsuyoshi	Atsugi			JP
Tomida; Yasuko	Atsugi			JP
Ohyama; Junji	Yamato			JP
Maruyama; Tomoko	Atsugi			JP

US-CL-CURRENT: 424/450; 264/4.32, 264/4.33, 264/4.7, 427/213.33, 427/213.34,  
427/214, 428/432, 428/433, 428/470

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 6. Document ID: US 6004815 A

L1: Entry 6 of 21

File: USPT

Dec 21, 1999

US-PAT-NO: 6004815

DOCUMENT-IDENTIFIER: US 6004815 A

TITLE: Bacteria expressing nonsecreted cytolysin as intracellular microbial  
delivery vehicles to eukaryotic cells

DATE-ISSUED: December 21, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Portnoy; Daniel A.	Berkeley	CA		
Higgins; Darren E.	Berkeley	CA		

US-CL-CURRENT: 435/454; 424/200.1, 435/252.3, 435/252.33, 435/325, 435/373

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 7. Document ID: US 5955444 A

L1: Entry 7 of 21

File: USPT

Sep 21, 1999

US-PAT-NO: 5955444

DOCUMENT-IDENTIFIER: US 5955444 A

TITLE: Method of inhibiting abnormal tau hyper phosphorylation in a cell

DATE-ISSUED: September 21, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ingram; Vernon M.	Cambridge	MA		
Roder; Hanno M.	Wuppertal II			DE

US-CL-CURRENT: 514/47; 514/46

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 8. Document ID: US 5786151 A

L1: Entry 8 of 21

File: USPT

Jul 28, 1998

US-PAT-NO: 5786151

DOCUMENT-IDENTIFIER: US 5786151 A

TITLE: Microencapsulated labelling technique

DATE-ISSUED: July 28, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sanders; Michael F.	Slough			GB3

US-CL-CURRENT: 435/6; 435/7.1, 435/7.2, 435/7.32, 435/7.72, 435/8, 436/501,  
436/518, 436/829, 530/391.3, 536/22.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 9. Document ID: US 5773232 A

L1: Entry 9 of 21

File: USPT

Jun 30, 1998

US-PAT-NO: 5773232

DOCUMENT-IDENTIFIER: US 5773232 A

TITLE: Methods for measurement of lymphocyte function

DATE-ISSUED: June 30, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wier; Majorie L.	Columbia	MD		

US-CL-CURRENT: 435/7.24; 435/30, 435/5, 435/7.9, 436/526, 436/548

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 10. Document ID: US 5759768 A

L1: Entry 10 of 21

File: USPT

Jun 2, 1998

US-PAT-NO: 5759768

DOCUMENT-IDENTIFIER: US 5759768 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Assays for factors affecting circularization of DNA, assays for factors affecting DNA integration, factors, and uses thereof

DATE-ISSUED: June 2, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haseltine; William A.	Cambridge	MA		
Farnet; Christopher M.	Cambridge	MA		

US-CL-CURRENT: 435/5; 435/235.1, 435/325, 435/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 11. Document ID: US 5593688 A

L1: Entry 11 of 21

File: USPT

Jan 14, 1997

US-PAT-NO: 5593688

DOCUMENT-IDENTIFIER: US 5593688 A

TITLE: Liposomal targeting of ischemic tissue

DATE-ISSUED: January 14, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baldeschwieler; John D.	Pasadena	CA		

US-CL-CURRENT: 424/450; 424/1.21, 428/402.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 12. Document ID: US 5543399 A

L1: Entry 12 of 21

File: USPT

Aug 6, 1996

US-PAT-NO: 5543399

DOCUMENT-IDENTIFIER: US 5543399 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Cystic fibrosis transmembrane conductance regulator (CFTR) protein

DATE-ISSUED: August 6, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Riordan; John R.	Toronto			CA
Bear; Christine E.	North York			CA
Ramjeesingh; Mohabir	Mississauga			CA
Li; Canhui	Toronto			CA

US-CL-CURRENT: [514/21](#); [424/450](#), [514/12](#), [514/8](#), [514/851](#), [530/350](#), [530/415](#), [530/417](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 13. Document ID: US 5527538 A

L1: Entry 13 of 21

File: USPT

Jun 18, 1996

US-PAT-NO: 5527538

DOCUMENT-IDENTIFIER: US 5527538 A

TITLE: Liposomal targeting of ischemic tissue

DATE-ISSUED: June 18, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baldeschwieler; John D.	Pasadena	CA		

US-CL-CURRENT: [424/1.21](#); [424/450](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 14. Document ID: US 5525503 A

L1: Entry 14 of 21

File: USPT

Jun 11, 1996

US-PAT-NO: 5525503

DOCUMENT-IDENTIFIER: US 5525503 A

TITLE: Signal transduction via CD28

DATE-ISSUED: June 11, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rudd; Christopher E.	Cambridge	MA		
Kanteti; Prasad	Boston	MA		

US-CL-CURRENT: [435/375](#); [530/330](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Da
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☐ 15. Document ID: US 5108934 A

L1: Entry 15 of 21

File: USPT

Apr 28, 1992

US-PAT-NO: 5108934

DOCUMENT-IDENTIFIER: US 5108934 A

TITLE: Quantitative immunoassay utilizing liposomes

DATE-ISSUED: April 28, 1992

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rokugawa; Kyuji	Nishinasuno			JP
Hatoh; Masako	Yokohama			JP
Ishimori; Yoshio	Tokyo			JP

US-CL-CURRENT: [436/512](#); [436/519](#), [436/528](#), [436/536](#), [436/826](#), [436/829](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Da
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☐ 16. Document ID: US 4704355 A

L1: Entry 16 of 21

File: USPT

Nov 3, 1987

US-PAT-NO: 4704355

DOCUMENT-IDENTIFIER: US 4704355 A

TITLE: Assay utilizing ATP encapsulated within liposome particles

DATE-ISSUED: November 3, 1987

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bernstein; David	Sykesville	MD		

US-CL-CURRENT: [435/6](#); [435/8](#), [436/501](#), [436/520](#), [436/827](#), [436/829](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Da
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☐ 17. Document ID: JP 04200390 A

L1: Entry 17 of 21

File: JPAB

Jul 21, 1992

PUB-NO: JP404200390A

DOCUMENT-IDENTIFIER: JP 04200390 A

TITLE: PRODUCTION POLYPEPTIDE BY CELL-FREE POLYPEPTIDE SYNTHESIS SYSTEM

PUBN-DATE: July 21, 1992

INVENTOR-INFORMATION:

NAME

COUNTRY

YOKOYAMA, SHIGEYUKI

ENDO, YAETA

KIKAWA, TAKANORI

US-CL-CURRENT: 435/68.1; 435/289.1

INT-CL (IPC): C12P 21/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. Data
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☐ 18. Document ID: JP 04088995 A

L1: Entry 18 of 21

File: JPAB

Mar 23, 1992